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&lt;120&gt; MBMS AS MODIFIERS OF BRANCHING MORPHOGENESIS AND METHODS OF USE

&lt;130&gt; EX03-075C-US

&lt;150&gt; US 60/420,554

&lt;151&gt; 2002-10-23

&lt;150&gt; US 60/436,941

&lt;151&gt; 2002-12-30

&lt;160&gt; 62

&lt;170&gt; PatentIn version 3.2

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Met Leu Ala Gly Leu Pro Thr Ser Asp Pro Gly Arg Leu Ile Thr Asp  
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Pro Arg Ser Gly Arg Thr Tyr Leu Lys Gly Arg Leu Leu Gly Lys Gly  
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Gly Phe Ala Arg Cys Tyr Glu Ala Thr Asp Thr Glu Thr Gly Ser Ala  
35 40 45

Tyr Ala Val Lys Val Ile Pro Gln Ser Arg Val Ala Lys Pro His Gln  
50 55 60

Arg Glu Lys Ile Leu Asn Glu Ile Glu Leu His Arg Asp Leu Gln His  
65 70 75 80

Arg His Ile Val Arg Phe Ser His His Phe Glu Asp Ala Asp Asn Ile  
85 90 95

Tyr Ile Phe Leu Glu Leu Cys Ser Arg Lys Ser Leu Ala His Ile Trp  
100 105 110

Lys Ala Arg His Thr Leu Leu Glu Pro Glu Val Arg Tyr Tyr Leu Arg  
115 120 125

Gln Ile Leu Ser Gly Leu Lys Tyr Leu His Gln Arg Gly Ile Leu His  
 130 135 140

Arg Asp Leu Lys Leu Gly Asn Phe Phe Ile Thr Glu Asn Met Glu Leu  
 145 150 155 160

Lys Val Gly Asp Phe Gly Leu Ala Ala Arg Leu Glu Pro Pro Glu Gln  
 165 170 175

Arg Lys Lys Thr Ile Cys Gly Thr Pro Asn Tyr Val Ala Pro Glu Val  
 180 185 190

Leu Leu Arg Gln Gly His Gly Pro Glu Ala Asp Val Trp Ser Leu Gly  
 195 200 205

Cys Val Met Tyr Thr Leu Leu Cys Gly Ser Pro Pro Phe Glu Thr Ala  
 210 215 220

Asp Leu Lys Glu Thr Tyr Arg Cys Ile Lys Gln Val His Tyr Thr Leu  
 225 230 235 240

Pro Ala Ser Leu Ser Leu Pro Ala Arg Gln Leu Leu Ala Ala Ile Leu  
 245 250 255

Arg Ala Ser Pro Arg Asp Arg Pro Ser Ile Asp Gln Ile Leu Arg His  
 260 265 270

Asp Phe Phe Thr Lys Gly Tyr Thr Pro Asp Arg Leu Pro Ile Ser Ser  
 275 280 285

Cys Val Thr Val Pro Asp Leu Thr Pro Pro Asn Pro Ala Arg Ser Leu  
 290 295 300

Phe Ala Lys Val Thr Lys Ser Leu Phe Gly Arg Lys Lys Lys Ser Lys  
 305 310 315 320

Asn His Ala Gln Glu Arg Asp Glu Val Ser Gly Leu Val Ser Gly Leu  
 325 330 335

Met Arg Thr Ser Val Gly His Gln Asp Ala Arg Pro Glu Ala Pro Ala  
 340 345 350

Ala Ser Gly Pro Ala Pro Val Ser Leu Val Glu Thr Ala Pro Glu Asp  
 355 360 365

Ser Ser Pro Arg Gly Thr Leu Ala Ser Ser Gly Asp Gly Phe Glu Glu  
 Page 54

370

375

Gly Leu Thr Val Ala Thr Val Val Glu Ser Ala Leu Cys Ala Leu Arg  
385 390 395 400

Asn Cys Ile Ala Phe Met Pro Pro Ala Glu Gln Asn Pro Ala Pro Leu  
405 410 415

Ala Gln Pro Glu Pro Leu Val Trp Val Ser Lys Trp Val Asp Tyr Ser  
420 425 430

Asn Lys Phe Gly Phe Gly Tyr Gln Leu Ser Ser Arg Arg Val Ala Val  
435 440 445

Leu Phe Asn Asp Gly Thr His Met Ala Leu Ser Ala Asn Arg Lys Thr  
450 455 460

Val His Tyr Asn Pro Thr Ser Thr Lys His Phe Ser Phe Ser Val Gly  
465 470 475 480

Ala Val Pro Arg Ala Leu Gln Pro Gln Leu Gly Ile Leu Arg Tyr Phe  
485 490 495

Ala Ser Tyr Met Glu Gln His Leu Met Lys Gly Gly Asp Leu Pro Ser  
500 505 510

Val Glu Glu Val Glu Val Pro Ala Pro Pro Leu Leu Leu Gln Trp Val  
515 520 525

Lys Thr Asp Gln Ala Leu Leu Met Leu Phe Ser Asp Gly Thr Val Gln  
530 535 540

Val Asn Phe Tyr Gly Asp His Thr Lys Leu Ile Leu Ser Gly Trp Glu  
545 550 555 560

Pro Leu Leu Val Thr Phe Val Ala Arg Asn Arg Ser Ala Cys Thr Tyr  
565 570 575

Leu Ala Ser His Leu Arg Gln Leu Gly Cys Ser Pro Asp Leu Arg Gln  
580 585 590

Arg Leu Arg Tyr Ala Leu Arg Leu Leu Arg Asp Arg Ser Pro Ala  
595 600 605

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<212> PRT  
<213> Homo sapiens

&lt;400&gt; 34

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Gly Pro Gly Pro Gly Phe Gly Phe Ala Ser Lys Thr Lys Lys Lys His  
 20 25 30

Phe Val Gln Gln Lys Val Lys Val Phe Arg Ala Ala Asp Pro Leu Val  
 35 40 45

Gly Val Phe Leu Trp Gly Val Ala His Ser Ile Asn Glu Leu Ser Gln  
 50 55 60

Val Pro Pro Pro Val Met Leu Leu Pro Asp Asp Phe Lys Ala Ser Ser  
 65 70 75 80

Lys Ile Lys Val Asn Asn His Leu Phe His Arg Glu Asn Leu Pro Ser  
 85 90 95

His Phe Lys Phe Lys Glu Tyr Cys Pro Gln Val Phe Arg Asn Leu Arg  
 100 105 110

Asp Arg Phe Gly Ile Asp Asp Gln Asp Tyr Leu Val Ser Leu Thr Arg  
 115 120 125

Asn Pro Pro Ser Glu Ser Glu Gly Ser Asp Gly Arg Phe Leu Ile Ser  
 130 135 140

Tyr Asp Arg Thr Leu Val Ile Lys Glu Val Ser Ser Glu Asp Ile Ala  
 145 150 155 160

Asp Met His Ser Asn Leu Ser Asn Tyr His Gln Tyr Ile Val Lys Cys  
 165 170 175

His Gly Asn Thr Leu Leu Pro Gln Phe Leu Gly Met Tyr Arg Val Ser  
 180 185 190

Val Asp Asn Glu Asp Ser Tyr Met Leu Val Met Arg Asn Met Phe Ser  
 195 200 205

His Arg Leu Pro Val His Arg Lys Tyr Asp Leu Lys Gly Ser Leu Val  
 210 215 220

Ser Arg Glu Ala Ser Asp Lys Glu Lys Val Lys Glu Leu Pro Thr Leu  
 225 230 235 240

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Arg Asp Met Asp Phe Leu Asn Lys Asn Gln Lys Val Tyr Ile Gly Glu  
 245 250 255

Glu Glu Lys Lys Ile Phe Leu Glu Lys Leu Lys Arg Asp Val Glu Phe  
 260 265 270

Leu Val Gln Leu Lys Ile Met Asp Tyr Ser Leu Leu Leu Gly Ile His  
 275 280 285

Asp Ile Ile Arg Gly Ser Glu Pro Glu Glu Glu Ala Pro Val Arg Glu  
 290 295 300

Asp Glu Ser Glu Val Asp Gly Asp Cys Ser Leu Thr Gly Pro Pro Ala  
 305 310 315 320

Leu Val Gly Ser Tyr Gly Thr Ser Pro Glu Gly Ile Gly Gly Tyr Ile  
 325 330 335

His Ser His Arg Pro Leu Gly Pro Gly Glu Phe Glu Ser Phe Ile Asp  
 340 345 350

Val Tyr Ala Ile Arg Ser Ala Glu Gly Ala Pro Gln Lys Glu Val Tyr  
 355 360 365

Phe Met Gly Leu Ile Asp Ile Leu Thr Gln Tyr Asp Ala Lys Lys Lys  
 370 375 380

Ala Ala His Ala Ala Lys Thr Val Lys His Gly Ala Gly Ala Glu Ile  
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Ser Thr Val His Pro Glu Gln Tyr Ala Lys Arg Phe Leu Asp Phe Ile  
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Thr Asn Ile Phe Ala  
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<210> 35  
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 <212> PRT  
 <213> Homo sapiens

<400> 35

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 20 25 30

Gln Pro Tyr His Gly Glu Lys Gly Ile Ser Val Pro Asp His Gly Phe  
 35 40 45

Cys Gln Pro Ile Ser Ile Pro Leu Cys Thr Asp Ile Ala Tyr Asn Gln  
 50 55 60

Thr Ile Leu Pro Asn Leu Leu Gly His Thr Asn Gln Glu Asp Ala Gly  
 65 70 75 80

Leu Glu Val His Gln Phe Tyr Pro Leu Val Lys Val Gln Cys Ser Pro  
 85 90 95

Glu Leu Arg Phe Phe Leu Cys Ser Met Tyr Ala Pro Val Cys Thr Val  
 100 105 110

Leu Asp Gln Ala Ile Pro Pro Cys Arg Ser Leu Cys Glu Arg Ala Arg  
 115 120 125

Gln Gly Cys Glu Ala Leu Met Asn Lys Phe Gly Phe Gln Trp Pro Glu  
 130 135 140

Arg Leu Arg Cys Glu Asn Phe Pro Val His Gly Ala Gly Glu Ile Cys  
 145 150 155 160

Val Gly Gln Asn Thr Ser Asp Gly Ser Gly Gly Pro Gly Gly Gly Pro  
 165 170 175

Thr Ala Tyr Pro Thr Ala Pro Tyr Leu Pro Asp Leu Pro Phe Thr Ala  
 180 185 190

Leu Pro Pro Gly Ala Ser Asp Gly Arg Gly Arg Pro Ala Phe Pro Phe  
 195 200 205

Ser Cys Pro Arg Gln Leu Lys Val Pro Pro Tyr Leu Gly Tyr Arg Phe  
 210 215 220

Leu Gly Glu Arg Asp Cys Gly Ala Pro Cys Glu Pro Gly Arg Ala Asn  
 225 230 235 240

Gly Leu Met Tyr Phe Lys Glu Glu Glu Arg Arg Phe Ala Arg Leu Trp  
 245 250 255

Val Gly Val Trp Ser Val Leu Cys Cys Ala Ser Thr Leu Phe Thr Val  
 260 265 270

Leu Thr Tyr Leu Val Asp Met Arg Arg Phe Ser Tyr Pro Glu Arg Pro  
 275 280 285

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Ile Ile Phe Leu Ser Gly Cys Tyr Phe Met Val Ala Val Ala His Val  
290 295 300

Ala Gly Phe Leu Leu Glu Asp Arg Ala Val Cys Val Glu Arg Phe Ser  
305 310 315 320

Asp Asp Gly Tyr Arg Thr Val Ala Gln Gly Thr Lys Lys Glu Gly Cys  
325 330 335

Thr Ile Leu Phe Met Val Leu Tyr Phe Phe Gly Met Ala Ser Ser Ile  
340 345 350

Trp Trp Val Ile Leu Ser Leu Thr Trp Phe Leu Ala Ala Gly Met Lys  
355 360 365

Trp Gly His Glu Ala Ile Glu Ala Asn Ser Gln Tyr Phe His Leu Ala  
370 375 380

Ala Trp Ala Val Pro Ala Val Lys Thr Ile Thr Ile Leu Ala Met Gly  
385 390 395 400

Gln Val Asp Gly Asp Leu Leu Ser Gly Val Cys Tyr Val Gly Leu Ser  
405 410 415

Ser Val Asp Ala Leu Arg Gly Phe Val Leu Ala Pro Leu Phe Val Tyr  
420 425 430

Leu Phe Ile Gly Thr Ser Phe Leu Leu Ala Gly Phe Val Ser Leu Phe  
435 440 445

Arg Ile Arg Thr Ile Met Lys His Asp Gly Thr Lys Thr Glu Lys Leu  
450 455 460

Glu Lys Leu Met Val Arg Ile Gly Val Phe Ser Val Leu Tyr Thr Val  
465 470 475 480

Pro Ala Thr Ile Val Leu Ala Cys Tyr Phe Tyr Glu Gln Ala Phe Arg  
485 490 495

Glu His Trp Glu Arg Thr Trp Leu Leu Gln Thr Cys Lys Ser Tyr Ala  
500 505 510

Val Pro Cys Pro Pro Gly His Phe Pro Pro Met Ser Pro Asp Phe Thr  
515 520 525

Val Phe Met Ile Lys Tyr Leu Met Thr Met Ile Val Gly Ile Thr Thr  
530 535 540

Gly Phe Trp Ile Trp Ser Gly Lys Thr Leu Gln Ser Trp Arg Arg Phe  
 545 550 555 560

Tyr His Arg Leu Ser His Ser Ser Lys Gly Glu Thr Ala Val  
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<210> 36  
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 <212> PRT  
 <213> Homo sapiens

<400> 36

Met Ser Gly Arg Pro Arg Thr Thr Ser Phe Ala Glu Ser Cys Lys Pro  
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Val Gln Gln Pro Ser Ala Phe Gly Ser Met Lys Val Ser Arg Asp Lys  
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Asp Gly Ser Lys Val Thr Thr Val Val Ala Thr Pro Gly Gln Gly Pro  
 35 40 45

Asp Arg Pro Gln Glu Val Ser Tyr Thr Asp Thr Lys Val Ile Gly Asn  
 50 55 60

Gly Ser Phe Gly Val Val Tyr Gln Ala Lys Leu Cys Asp Ser Gly Glu  
 65 70 75 80

Leu Val Ala Ile Lys Lys Val Leu Gln Asp Lys Arg Phe Lys Asn Arg  
 85 90 95

Glu Leu Gln Ile Met Arg Lys Leu Asp His Cys Asn Ile Val Arg Leu  
 100 105 110

Arg Tyr Phe Phe Tyr Ser Ser Gly Glu Lys Lys Asp Glu Val Tyr Leu  
 115 120 125

Asn Leu Val Leu Asp Tyr Val Pro Glu Thr Val Tyr Arg Val Ala Arg  
 130 135 140

His Tyr Ser Arg Ala Lys Gln Thr Leu Pro Val Ile Tyr Val Lys Leu  
 145 150 155 160

Tyr Met Tyr Gln Leu Phe Arg Ser Leu Ala Tyr Ile His Ser Phe Gly  
 165 170 175

Ile Cys His Arg Asp Ile Lys Pro Gln Asn Leu Leu Leu Asp Pro Asp  
 180 185 190

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Thr Ala Val Leu Lys Leu Cys Asp Phe Gly Ser Ala Lys Gln Leu Val  
195 200 205

Arg Gly Glu Pro Asn Val Ser Tyr Ile Cys Ser Arg Tyr Tyr Arg Ala  
210 215 220

Pro Glu Leu Ile Phe Gly Ala Thr Asp Tyr Thr Ser Ser Ile Asp Val  
225 230 235 240

Trp Ser Ala Gly Cys Val Leu Ala Glu Leu Leu Gly Gln Pro Ile  
245 250 255

Phe Pro Gly Asp Ser Gly Val Asp Gln Leu Val Glu Ile Ile Lys Val  
260 265 270

Leu Gly Thr Pro Thr Arg Glu Gln Ile Arg Glu Met Asn Pro Asn Tyr  
275 280 285

Thr Glu Phe Lys Phe Pro Gln Ile Lys Ala His Pro Trp Thr Lys Val  
290 295 300

Phe Arg Pro Arg Thr Pro Pro Glu Ala Ile Ala Leu Cys Ser Arg Leu  
305 310 315 320

Leu Glu Tyr Thr Pro Thr Ala Arg Leu Thr Pro Leu Glu Ala Cys Ala  
325 330 335

His Ser Phe Phe Asp Glu Leu Arg Asp Pro Asn Val Lys His Pro Asn  
340 345 350

Gly Arg Asp Thr Pro Ala Leu Phe Asn Phe Thr Thr Gln Glu Leu Ser  
355 360 365

Ser Asn Pro Pro Leu Ala Thr Ile Leu Ile Pro Pro His Ala Arg Ile  
370 375 380

Gln Ala Ala Ala Ser Thr Pro Thr Asn Ala Thr Ala Ala Ser Asp Ala  
385 390 395 400

Asn Thr Gly Asp Arg Gly Gln Thr Asn Asn Ala Ala Ser Ala Ser Ala  
405 410 415

Ser Asn Ser Thr  
420

<210> 37

<211> 1215  
 <212> PRT  
 <213> Homo sapiens

<400> 37

Met Ala Ser Gln Val Leu Val Tyr Pro Pro Tyr Val Tyr Gln Thr Gln  
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Ser Ser Ala Phe Cys Ser Val Lys Lys Leu Lys Val Glu Pro Ser Ser  
 20 25 30

Cys Val Phe Gln Glu Arg Asn Tyr Pro Arg Thr Tyr Val Asn Gly Arg  
 35 40 45

Asn Phe Gly Asn Ser His Pro Pro Thr Lys Gly Ser Ala Phe Gln Thr  
 50 55 60

Lys Ile Pro Phe Asn Arg Pro Arg Gly His Asn Phe Ser Leu Gln Thr  
 65 70 75 80

Ser Ala Val Val Leu Lys Asn Thr Ala Gly Ala Thr Lys Val Ile Ala  
 85 90 95

Ala Gln Ala Gln Gln Ala His Val Gln Ala Pro Gln Ile Gly Ala Trp  
 100 105 110

Arg Asn Arg Leu His Phe Leu Glu Gly Pro Gln Arg Cys Gly Leu Lys  
 115 120 125

Arg Lys Ser Glu Glu Leu Asp Asn His Ser Ser Ala Met Gln Ile Val  
 130 135 140

Asp Glu Leu Ser Ile Leu Pro Ala Met Leu Gln Thr Asn Met Gly Asn  
 145 150 155 160

Pro Val Thr Val Val Thr Ala Thr Thr Gly Ser Lys Gln Asn Cys Thr  
 165 170 175

Thr Gly Glu Gly Asp Tyr Gln Leu Val Gln His Glu Val Leu Cys Ser  
 180 185 190

Met Lys Asn Thr Tyr Glu Val Leu Asp Phe Leu Gly Arg Gly Thr Phe  
 195 200 205

Gly Gln Val Val Lys Cys Trp Lys Arg Gly Thr Asn Glu Ile Val Ala  
 210 215 220

Ile Lys Ile Leu Lys Asn His Pro Ser Tyr Ala Arg Gln Gly Gln Ile  
 Page 62

225                      230                      235                      240  
 Glu Val Ser Ile Leu<sub>245</sub> Ala Arg Leu Ser Thr<sub>250</sub> Glu Asn Ala Asp Glu<sub>255</sub> Tyr  
 Asn Phe Val Arg<sub>260</sub> Ala Tyr Glu Cys Phe<sub>265</sub> Gln His Arg Asn His<sub>270</sub> Thr Cys  
 Leu Val Phe<sub>275</sub> Glu Met Leu Glu Gln<sub>280</sub> Asn Leu Tyr Asp Phe<sub>285</sub> Leu Lys Gln  
 Asn Lys<sub>290</sub> Phe Ser Pro Leu Pro<sub>295</sub> Leu Lys Val Ile Arg<sub>300</sub> Pro Ile Leu Gln  
 Gln<sub>305</sub> Val Ala Thr Ala Leu<sub>310</sub> Lys Lys Leu Lys Ser<sub>315</sub> Leu Gly Leu Ile His<sub>320</sub>  
 Ala Asp Leu Lys Pro<sub>325</sub> Glu Asn Ile Met Leu<sub>330</sub> Val Asp Pro Val Arg<sub>335</sub> Gln  
 Pro Tyr Arg Val<sub>340</sub> Lys Val Ile Asp Phe<sub>345</sub> Gly Ser Ala Ser His<sub>350</sub> Val Ser  
 Lys Thr Val<sub>355</sub> Cys Ser Thr Tyr Leu<sub>360</sub> Gln Ser Arg Tyr Tyr<sub>365</sub> Arg Ala Pro  
 Glu Ile<sub>370</sub> Ile Leu Gly Leu Pro<sub>375</sub> Phe Cys Glu Ala Ile<sub>380</sub> Asp Met Trp Ser  
 Leu Gly Cys Val Ile Ala<sub>390</sub> Glu Leu Phe Leu Gly<sub>395</sub> Trp Pro Leu Tyr Pro<sub>400</sub>  
 Gly Ala Leu Glu Tyr<sub>405</sub> Asp Gln Ile Arg Tyr<sub>410</sub> Ile Ser Gln Thr Gln<sub>415</sub> Gly  
 Leu Pro Gly Glu<sub>420</sub> Gln Leu Leu Asn Val<sub>425</sub> Gly Thr Lys Ser Thr<sub>430</sub> Arg Phe  
 Phe Cys Lys<sub>435</sub> Glu Thr Asp Met Ser<sub>440</sub> His Ser Gly Trp Arg<sub>445</sub> Leu Lys Thr  
 Leu Glu Glu His Glu Ala Glu<sub>455</sub> Thr Gly Met Lys Ser<sub>460</sub> Lys Glu Ala Arg  
 Lys Tyr Ile Phe Asn Ser<sub>470</sub> Leu Asp Asp Val Ala<sub>475</sub> His Val Asn Thr Val<sub>480</sub>

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Met Asp Leu Glu Gly Ser Asp Leu Leu Ala Glu Lys Ala Asp Arg Arg  
 485 490 495

Glu Phe Val Ser Leu Leu Lys Lys Met Leu Leu Ile Asp Ala Asp Leu  
 500 505 510

Arg Ile Thr Pro Ala Glu Thr Leu Asn His Pro Phe Val Asn Met Lys  
 515 520 525

His Leu Leu Asp Phe Pro His Ser Asn His Val Lys Ser Cys Phe His  
 530 535 540

Ile Met Asp Ile Cys Lys Ser His Leu Asn Ser Cys Asp Thr Asn Asn  
 545 550 555 560

His Asn Lys Thr Ser Leu Leu Arg Pro Val Ala Ser Ser Ser Thr Ala  
 565 570 575

Thr Leu Thr Ala Asn Phe Thr Lys Ile Gly Thr Leu Arg Ser Gln Ala  
 580 585 590

Leu Thr Thr Ser Ala His Ser Val Val His His Gly Ile Pro Leu Gln  
 595 600 605

Ala Gly Thr Ala Gln Phe Gly Cys Gly Asp Ala Phe Gln Gln Thr Leu  
 610 615 620

Ile Ile Cys Pro Pro Ala Ile Gln Gly Ile Pro Ala Thr His Gly Lys  
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Pro Thr Ser Tyr Ser Ile Arg Val Asp Asn Thr Val Pro Leu Val Thr  
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Gln Ala Pro Ala Val Gln Pro Leu Gln Ile Arg Pro Gly Val Leu Ser  
 660 665 670

Gln Thr Trp Ser Gly Arg Thr Gln Gln Met Leu Val Pro Ala Trp Gln  
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Gln Val Thr Pro Leu Ala Pro Ala Thr Thr Thr Leu Thr Ser Glu Ser  
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Val Ala Gly Ser His Arg Leu Gly Asp Trp Gly Lys Met Ile Ser Cys  
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Ser Asn His Tyr Asn Ser Val Met Pro Gln Pro Leu Leu Thr Asn Gln  
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Ile Thr Leu Ser Ala Pro Gln Pro Val Ser Val Gly Ile Ala His Val  
740 745 750

Val Trp Pro Gln Pro Ala Thr Thr Lys Lys Asn Lys Gln Cys Gln Asn  
755 760 765

Arg Gly Ile Leu Val Lys Leu Met Glu Trp Glu Pro Gly Arg Glu Glu  
770 775 780

Ile Asn Ala Phe Ser Trp Ser Asn Ser Leu Gln Asn Thr Asn Ile Pro  
785 790 795 800

His Ser Ala Phe Ile Ser Pro Lys Ile Ile Asn Gly Lys Asp Val Glu  
805 810 815

Glu Val Ser Cys Ile Glu Thr Gln Asp Asn Gln Asn Ser Glu Gly Glu  
820 825 830

Ala Arg Asn Cys Cys Glu Thr Ser Ile Arg Gln Asp Ser Asp Ser Ser  
835 840 845

Val Ser Asp Lys Gln Arg Gln Thr Ile Ile Ile Ala Asp Ser Pro Ser  
850 855 860

Pro Ala Val Ser Val Ile Thr Ile Ser Ser Asp Thr Asp Glu Glu Glu  
865 870 875 880

Thr Ser Gln Arg His Ser Leu Arg Glu Cys Lys Gly Ser Leu Asp Cys  
885 890 895

Glu Ala Cys Gln Ser Thr Leu Asn Ile Asp Arg Met Cys Ser Leu Ser  
900 905 910

Ser Pro Asp Ser Thr Leu Ser Thr Ser Ser Ser Gly Gln Ser Ser Pro  
915 920 925

Ser Pro Cys Lys Arg Pro Asn Ser Met Ser Asp Glu Glu Gln Glu Ser  
930 935 940

Ser Cys Asp Thr Val Asp Gly Ser Pro Thr Ser Asp Ser Ser Gly His  
945 950 955 960

Asp Ser Pro Phe Ala Glu Ser Thr Phe Val Glu Asp Thr His Glu Asn  
965 970 975

Thr Glu Leu Val Ser Ser Ala Asp Thr Glu Thr Lys Pro Ala Val Cys  
980 985 990

Ser Val Val Val Pro Pro Val Glu Leu Glu Asn Gly Leu Asn Ala Asp  
 995 1000 1005

Glu His Met Ala Asn Thr Asp Ser Ile Cys Gln Pro Leu Ile Lys  
 1010 1015 1020

Gly Arg Ser Ala Pro Gly Arg Leu Asn Gln Pro Ser Ala Val Gly  
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Thr Arg Gln Gln Lys Leu Thr Ser Ala Phe Gln Gln Gln His Leu  
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Asn Phe Ser Gln Val Gln His Phe Gly Ser Gly His Gln Glu Trp  
 1055 1060 1065

Asn Gly Asn Phe Gly His Arg Arg Gln Gln Ala Tyr Ile Pro Thr  
 1070 1075 1080

Ser Val Thr Ser Asn Pro Phe Thr Leu Ser His Gly Ser Pro Asn  
 1085 1090 1095

His Thr Ala Val His Ala His Leu Ala Gly Asn Thr His Leu Gly  
 1100 1105 1110

Gly Gln Pro Thr Leu Leu Pro Tyr Pro Ser Ser Ala Thr Leu Ser  
 1115 1120 1125

Ser Ala Ala Pro Val Ala His Leu Leu Ala Ser Pro Cys Thr Ser  
 1130 1135 1140

Arg Pro Met Leu Gln His Pro Thr Tyr Asn Ile Ser His Pro Ser  
 1145 1150 1155

Gly Ile Val His Gln Val Pro Val Gly Leu Asn Pro Arg Leu Leu  
 1160 1165 1170

Pro Ser Pro Thr Ile His Gln Thr Gln Tyr Lys Pro Ile Phe Pro  
 1175 1180 1185

Pro His Ser Tyr Ile Ala Ala Ser Pro Ala Tyr Thr Gly Phe Pro  
 1190 1195 1200

Leu Ser Pro Thr Lys Leu Ser Gln Tyr Pro Tyr Met  
 1205 1210 1215

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<211> 976  
 <212> PRT  
 <213> Homo sapiens

<400> 38

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Glu Pro Ser Pro Pro Ser Ile His Pro Gly Lys Ser Asp Leu Ile Val  
 35 40 45

Arg Val Gly Asp Glu Ile Arg Leu Leu Cys Thr Asp Pro Gly Phe Val  
 50 55 60

Lys Trp Thr Phe Glu Ile Leu Asp Glu Thr Asn Glu Asn Lys Gln Asn  
 65 70 75 80

Glu Trp Ile Thr Glu Lys Ala Glu Ala Thr Asn Thr Gly Lys Tyr Thr  
 85 90 95

Cys Thr Asn Lys His Gly Leu Ser Asn Ser Ile Tyr Val Phe Val Arg  
 100 105 110

Asp Pro Ala Lys Leu Phe Leu Val Asp Arg Ser Leu Tyr Gly Lys Glu  
 115 120 125

Asp Asn Asp Thr Leu Val Arg Cys Pro Leu Thr Asp Pro Glu Val Thr  
 130 135 140

Asn Tyr Ser Leu Lys Gly Cys Gln Gly Lys Pro Leu Pro Lys Asp Leu  
 145 150 155 160

Arg Phe Ile Pro Asp Pro Lys Ala Gly Ile Met Ile Lys Ser Val Lys  
 165 170 175

Arg Ala Tyr His Arg Leu Cys Leu His Cys Ser Val Asp Gln Glu Gly  
 180 185 190

Lys Ser Val Leu Ser Glu Lys Phe Ile Leu Lys Val Arg Pro Ala Phe  
 195 200 205

Lys Ala Val Pro Val Val Ser Val Ser Lys Ala Ser Tyr Leu Leu Arg  
 210 215 220

Glu Gly Glu Glu Phe Thr Val Thr Cys Thr Ile Lys Asp Val Ser Ser  
 Page 67

225                      230                      235                      240  
 Ser Val Tyr Ser Thr Trp Lys Arg Glu Asn Ser Gln Thr Lys Leu Gln  
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 Glu Lys Tyr Asn Ser Trp His His Gly Asp Phe Asn Tyr Glu Arg Gln  
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 Ala Thr Leu Thr Ile Ser Ser Ala Arg Val Asn Asp Ser Gly Val Phe  
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 Met Cys Tyr Ala Asn Asn Thr Phe Gly Ser Ala Asn Val Thr Thr Thr  
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 Leu Glu Val Val Asp Lys Gly Phe Ile Asn Ile Phe Pro Met Ile Asn  
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 Thr Thr Val Phe Val Asn Asp Gly Glu Asn Val Asp Leu Ile Val Glu  
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 Tyr Glu Ala Phe Pro Lys Pro Glu His Gln Gln Trp Ile Tyr Met Asn  
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 Arg Thr Phe Thr Asp Lys Trp Glu Asp Tyr Pro Lys Ser Glu Asn Glu  
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 Ser Asn Ile Arg Tyr Val Ser Glu Leu His Leu Thr Arg Leu Lys Gly  
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 Thr Glu Gly Gly Thr Tyr Thr Phe Leu Val Ser Asn Ser Asp Val Asn  
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 Ala Ala Ile Ala Phe Asn Val Tyr Val Asn Thr Lys Pro Glu Ile Leu  
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 Thr Tyr Asp Arg Leu Val Asn Gly Met Leu Gln Cys Val Ala Ala Gly  
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 Ser Gly Pro Pro Phe Gly Lys Leu Val Val Gln Ser Ser Ile Asp Ser  
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Ser Ala Phe Lys His Asn Gly Thr Val Glu Cys Lys Ala Tyr Asn Asp  
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Val Gly Lys Thr Ser Ala Tyr Phe Asn Phe Ala Phe Lys Gly Asn Asn  
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Lys Glu Gln Ile His Pro His Thr Leu Phe Thr Pro Leu Leu Ile Gly  
 515 520 525

Phe Val Ile Val Ala Gly Met Met Cys Ile Ile Val Met Ile Leu Thr  
 530 535 540

Tyr Lys Tyr Leu Gln Lys Pro Met Tyr Glu Val Gln Trp Lys Val Val  
 545 550 555 560

Glu Glu Ile Asn Gly Asn Asn Tyr Val Tyr Ile Asp Pro Thr Gln Leu  
 565 570 575

Pro Tyr Asp His Lys Trp Glu Phe Pro Arg Asn Arg Leu Ser Phe Gly  
 580 585 590

Lys Thr Leu Gly Ala Gly Ala Phe Gly Lys Val Val Glu Ala Thr Ala  
 595 600 605

Tyr Gly Leu Ile Lys Ser Asp Ala Ala Met Thr Val Ala Val Lys Met  
 610 615 620

Leu Lys Pro Ser Ala His Leu Thr Glu Arg Glu Ala Leu Met Ser Glu  
 625 630 635 640

Leu Lys Val Leu Ser Tyr Leu Gly Asn His Met Asn Ile Val Asn Leu  
 645 650 655

Leu Gly Ala Cys Thr Ile Gly Gly Pro Thr Leu Val Ile Thr Glu Tyr  
 660 665 670

Cys Cys Tyr Gly Asp Leu Leu Asn Phe Leu Arg Arg Lys Arg Asp Ser  
 675 680 685

Phe Ile Cys Ser Lys Gln Glu Asp His Ala Glu Ala Ala Leu Tyr Lys  
 690 695 700

Asn Leu Leu His Ser Lys Glu Ser Ser Cys Ser Asp Ser Thr Asn Glu  
 705 710 715 720

Tyr Met Asp Met Lys Pro Gly Val Ser Tyr Val Val Pro Thr Lys Ala  
 725 730 735

EX03-075C-US patentin.txt

Asp Lys Arg Arg Ser Val Arg Ile Gly Ser Tyr Ile Glu Arg Asp Val  
740 745 750

Thr Pro Ala Ile Met Glu Asp Asp Glu Leu Ala Leu Asp Leu Glu Asp  
755 760 765

Leu Leu Ser Phe Ser Tyr Gln Val Ala Lys Gly Met Ala Phe Leu Ala  
770 775 780

Ser Lys Asn Cys Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu Leu  
785 790 795 800

Thr His Gly Arg Ile Thr Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp  
805 810 815

Ile Lys Asn Asp Ser Asn Tyr Val Val Lys Gly Asn Ala Arg Leu Pro  
820 825 830

Val Lys Trp Met Ala Pro Glu Ser Ile Phe Asn Cys Val Tyr Thr Phe  
835 840 845

Glu Ser Asp Val Trp Ser Tyr Gly Ile Phe Leu Trp Glu Leu Phe Ser  
850 855 860

Leu Gly Ser Ser Pro Tyr Pro Gly Met Pro Val Asp Ser Lys Phe Tyr  
865 870 875 880

Lys Met Ile Lys Glu Gly Phe Arg Met Leu Ser Pro Glu His Ala Pro  
885 890 895

Ala Glu Met Tyr Asp Ile Met Lys Thr Cys Trp Asp Ala Asp Pro Leu  
900 905 910

Lys Arg Pro Thr Phe Lys Gln Ile Val Gln Leu Ile Glu Lys Gln Ile  
915 920 925

Ser Glu Ser Thr Asn His Ile Tyr Ser Asn Leu Ala Asn Cys Ser Pro  
930 935 940

Asn Arg Gln Lys Pro Val Val Asp His Ser Val Arg Ile Asn Ser Val  
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Gly Ser Thr Ala Ser Ser Ser Gln Pro Leu Leu Val His Asp Asp Val  
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<400> 39

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Gln Val Phe Asp Val Gly Pro Arg Tyr Thr Asn Leu Ser Tyr Ile Gly  
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Glu Gly Ala Tyr Gly Met Val Cys Ser Ala Tyr Asp Asn Val Asn Lys  
 35 40 45

Val Arg Val Ala Ile Lys Lys Ile Ser Pro Phe Glu His Gln Thr Tyr  
 50 55 60

Cys Gln Arg Thr Leu Arg Glu Ile Lys Ile Leu Leu Arg Phe Arg His  
 65 70 75 80

Glu Asn Ile Ile Gly Ile Asn Asp Ile Ile Arg Ala Pro Thr Ile Glu  
 85 90 95

Gln Met Lys Asp Val Tyr Ile Val Gln Asp Leu Met Glu Thr Asp Leu  
 100 105 110

Tyr Lys Leu Leu Lys Thr Gln His Leu Ser Asn Asp His Ile Cys Tyr  
 115 120 125

Phe Leu Tyr Gln Ile Leu Arg Gly Leu Lys Tyr Ile His Ser Ala Asn  
 130 135 140

Val Leu His Arg Asp Leu Lys Pro Ser Asn Leu Leu Leu Asn Thr Thr  
 145 150 155 160

Cys Asp Leu Lys Ile Cys Asp Phe Gly Leu Ala Arg Val Ala Asp Pro  
 165 170 175

Asp His Asp His Thr Gly Phe Leu Thr Glu Tyr Val Ala Thr Arg Trp  
 180 185 190

Tyr Arg Ala Pro Glu Ile Met Leu Asn Ser Lys Gly Tyr Thr Lys Ser  
 195 200 205

Ile Asp Ile Trp Ser Val Gly Cys Ile Leu Ala Glu Met Leu Ser Asn  
 210 215 220

Arg Pro Ile Phe Pro Gly Lys His Tyr Leu Asp Gln Leu Asn His Ile  
 225 230 235 240

Leu Gly Ile Leu Gly Ser Pro Ser Gln Glu Asp Leu Asn Cys Ile Ile  
                   245                  250                  255

Asn Leu Lys Ala Arg Asn Tyr Leu Leu Ser Leu Pro His Lys Asn Lys  
                   260                  265                  270

Val Pro Trp Asn Arg Leu Phe Pro Asn Ala Asp Ser Lys Ala Leu Asp  
                   275                  280                  285

Leu Leu Asp Lys Met Leu Thr Phe Asn Pro His Lys Arg Ile Glu Val  
           290                  295                  300

Glu Gln Ala Leu Ala His Pro Tyr Leu Glu Gln Tyr Tyr Asp Pro Ser  
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Asp Glu Pro Ile Ala Glu Ala Pro Phe Lys Phe Asp Met Glu Leu Asp  
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Asp Leu Pro Lys Glu Lys Leu Lys Glu Leu Ile Phe Glu Glu Thr Ala  
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Arg Phe Gln Pro Gly Tyr Arg Ser  
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Ile Ala Lys His Tyr Asn Met Ser Lys Ser Lys Val Asp Asn Gln Phe  
           35                  40                  45

Tyr Ser Val Glu Val Gly Asp Ser Thr Phe Thr Val Leu Lys Arg Tyr  
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Gln Asn Leu Lys Pro Ile Gly Ser Gly Ala Gln Gly Ile Val Cys Ala  
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Ala Tyr Asp Ala Val Leu Asp Arg Asn Val Ala Ile Lys Lys Leu Ser  
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Arg Pro Phe Gln Asn Gln Thr His Ala Lys Arg Ala Tyr Arg Glu Leu  
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Val Leu Met Lys Cys Val Asn His Lys Asn Ile Ile Ser Leu Leu Asn  
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Val Phe Thr Pro Gln Lys Thr Leu Glu Glu Phe Gln Asp Val Tyr Leu  
130 135 140

Val Met Glu Leu Met Asp Ala Asn Leu Cys Gln Val Ile Gln Met Glu  
145 150 155 160

Leu Asp His Glu Arg Met Ser Tyr Leu Leu Tyr Gln Met Leu Cys Gly  
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Ile Lys His Leu His Ser Ala Gly Ile Ile His Arg Asp Leu Lys Pro  
180 185 190

Ser Asn Ile Val Val Lys Ser Asp Cys Thr Leu Lys Ile Leu Asp Phe  
195 200 205

Gly Leu Ala Arg Thr Ala Gly Thr Ser Phe Met Met Thr Pro Tyr Val  
210 215 220

Val Thr Arg Tyr Tyr Arg Ala Pro Glu Val Ile Leu Gly Met Gly Tyr  
225 230 235 240

Lys Glu Asn Val Asp Ile Trp Ser Val Gly Cys Ile Met Gly Glu Met  
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Val Arg His Lys Ile Leu Phe Pro Gly Arg Asp Tyr Ile Asp Gln Trp  
260 265 270

Asn Lys Val Ile Glu Gln Leu Gly Thr Pro Cys Pro Glu Phe Met Lys  
275 280 285

Lys Leu Gln Pro Thr Val Arg Asn Tyr Val Glu Asn Arg Pro Lys Tyr  
290 295 300

Ala Gly Leu Thr Phe Pro Lys Leu Phe Pro Asp Ser Leu Phe Pro Ala  
305 310 315 320

Asp Ser Glu His Asn Lys Leu Lys Ala Ser Gln Ala Arg Asp Leu Leu  
325 330 335

Ser Lys Met Leu Val Ile Asp Pro Ala Lys Arg Ile Ser Val Asp Asp  
Page 73

340

Ala Leu Gln His Pro Tyr Ile Asn Val Trp Tyr Asp Pro Ala Glu Val  
355 360 365

Glu Ala Pro Pro Pro Gln Ile Tyr Asp Lys Gln Leu Asp Glu Arg Glu  
370 375 380

His Thr Ile Glu Glu Trp Lys Glu Leu Ile Tyr Lys Glu Val Met Asn  
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35 40 45

Thr Tyr Met Asp Leu Lys Pro Leu Gly Cys Gly Gly Asn Tyr Leu Phe  
50 55 60

Phe Ser Ala Val Asp Asn Asp Cys Asp Lys Arg Val Ala Ile Lys Lys  
65 70 75 80

Ile Val Leu Thr Asn Pro Gln Ser Val Lys His Ala Leu Cys Glu Ile  
85 90 95

Lys Ile Ile Arg Arg Leu Asp His Asp Asn Ile Val Lys Val Phe Glu  
100 105 110

Ile Pro Gly Pro Ser Gly Ser Gln Leu Thr Asp Asp Val Gly Ser Leu  
115 120 125

Thr Glu Leu Asn Ser Val Tyr Ile Val Gln Glu Tyr Met Lys Thr Asp  
Page 74

130

135

140

Leu Ser Lys Val Leu Glu Gln Gly Pro Leu Leu Glu Glu His Ala Arg  
 145 150 155 160

Leu Phe Met Tyr Gln Leu Leu Arg Gly Leu Lys Tyr Ile His Ser Ala  
 165 170 175

Asn Val Leu His Arg Asp Leu Lys Pro Thr Asn Leu Phe Ile Asn Thr  
 180 185 190

Glu Asp Leu Val Leu Lys Ile Gly Asp Phe Gly Leu Ala Arg Ile Met  
 195 200 205

Asp Pro His Tyr Ser Arg Ala His Glu Leu Glu Gln Met Gln Leu Thr  
 210 215 220

Leu Glu Ser Ile Pro Val Ala His Glu Glu Asp Arg Gln Glu Leu Leu  
 225 230 235 240

Ser Val Ile Pro Val Tyr Ile Arg Asn His Met Thr Glu Pro His Lys  
 245 250 255

Pro Leu Thr Gln Leu Leu Pro Gly Ile Ser Arg Glu Ala Leu Asn Phe  
 260 265 270

Leu Glu Gln Ile Leu Thr Phe Ser Pro Met Asp Trp Leu Ile Ala Glu  
 275 280 285

Glu Ala Leu Ser His Pro Tyr Met Ser Ile Cys Ser Phe Pro Met Asp  
 290 295 300

Lys Pro Ile Ser Ser His Pro Phe His Ile Glu Asp Glu Ala His Asn  
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Tyr Tyr Asp Cys Gln Phe Ser Glu His Asp Trp Pro Ile His Asn Asn  
 340 345 350

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 35 40 45

Lys Lys Ile Val Leu Thr Asp Pro Gln Ser Val Lys His Ala Leu Arg  
 50 55 60

Glu Ile Lys Ile Ile Arg Arg Leu Asp His Asp Asn Ile Val Lys Val  
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Phe Glu Ile Leu Gly Pro Ser Gly Ser Gln Leu Thr Asp Asp Val Gly  
 85 90 95

Ser Leu Thr Glu Leu Asn Ser Val Tyr Ile Val Gln Glu Tyr Met Glu  
 100 105 110

Thr Asp Leu Ala Asn Val Leu Glu Gln Gly Pro Leu Leu Glu Glu His  
 115 120 125

Ala Arg Leu Phe Met Tyr Gln Leu Leu Arg Gly Leu Lys Tyr Ile His  
 130 135 140

Ser Ala Asn Val Leu His Arg Asp Leu Lys Pro Ala Asn Leu Phe Ile  
 145 150 155 160

Asn Thr Glu Asp Leu Val Leu Lys Ile Gly Asp Phe Gly Leu Ala Arg  
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Ile Met Asp Pro His Tyr Ser His Lys Gly His Leu Ser Glu Gly Leu  
 180 185 190

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 195 200 205

Tyr Thr Lys Ala Ile Asp Met Trp Ala Ala Gly Cys Ile Phe Ala Glu  
 210 215 220

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Met Leu Thr Gly Lys Thr Leu Phe Ala Gly Ala His Glu Leu Glu Gln  
 225 230 235 240

Met Gln Leu Ile Leu Glu Ser Ile Pro Val Val His Glu Glu Asp Arg  
 245 250 255

Gln Glu Leu Leu Ser Val Ile Pro Val Tyr Ile Arg Asn Asp Met Thr  
 260 265 270

Glu Pro His Lys Pro Leu Thr Gln Leu Leu Pro Gly Ile Ser Arg Glu  
 275 280 285

Ala Leu Asp Phe Leu Glu Gln Ile Leu Thr Phe Ser Pro Met Asp Arg  
 290 295 300

Leu Thr Ala Glu Glu Ala Leu Ser His Pro Tyr Met Ser Ile Tyr Ser  
 305 310 315 320

Phe Pro Met Asp Glu Pro Ile Ser Ser His Pro Phe His Ile Glu Asp  
 325 330 335

Glu Val Asp Asp Ile Leu Leu Met Asp Glu Thr His Ser His Ile Tyr  
 340 345 350

Asn Trp Glu Arg Tyr His Asp Cys Gln Phe Ser Glu His Asp Trp Pro  
 355 360 365

Val His Asn Asn Phe Asp Ile Asp Glu Val Gln Leu Asp Pro Arg Ala  
 370 375 380

Leu Ser Asp Val Thr Asp Glu Glu Glu Val Gln Val Asp Pro Arg Lys  
 385 390 395 400

Tyr Leu Asp Gly Asp Arg Glu Lys Tyr Leu Glu Asp Pro Ala Phe Asp  
 405 410 415

Thr Asn Tyr Ser Thr Glu Pro Cys Trp Gln Tyr Ser Asp His His Glu  
 420 425 430

Asn Lys Tyr Cys Asp Leu Glu Cys Ser His Thr Cys Asn Tyr Lys Thr  
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Arg Ser Ser Ser Tyr Leu Asp Asn Leu Val Trp Arg Glu Ser Glu Val  
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Asn His Tyr Tyr Glu Pro Lys Leu Ile Ile Asp Leu Ser Asn Trp Lys  
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Glu Gln Ser Lys Glu Lys Ser Asp Lys Lys Gly Lys Ser Lys Cys Glu  
485 490 495

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Gln Leu Ala Gly Lys Glu Arg Glu Lys Asn Gln Gly Phe Asp Phe Asp  
515 520 525

Ser Phe Ile Ala Gly Thr Ile Gln Leu Ser Ser Gln His Glu Pro Thr  
530 535 540

Asp Val Val Asp Lys Leu Asn Asp Leu Asn Ser Ser Val Ser Gln Leu  
545 550 555 560

Glu Leu Lys Ser Leu Ile Ser Lys Ser Val Ser Gln Glu Lys Gln Glu  
565 570 575

Lys Gly Met Ala Asn Leu Ala Gln Leu Glu Ala Leu Tyr Gln Ser Ser  
580 585 590

Trp Asp Ser Gln Phe Val Ser Gly Gly Glu Asp Cys Phe Phe Ile Asn  
595 600 605

Gln Phe Cys Glu Val Arg Lys Asp Glu Gln Val Glu Lys Glu Asn Thr  
610 615 620

Tyr Thr Ser Tyr Leu Asp Lys Phe Phe Ser Arg Lys Glu Asp Thr Glu  
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Met Leu Glu Thr Glu Pro Val Glu Asp Gly Lys Leu Gly Glu Arg Gly  
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Gln Leu Glu Ser Ile Gly Ile Pro Gln Phe His Ser Pro Val Gly Ser  
675 680 685

Pro Leu Lys Ser Ile Gln Ala Thr Leu Thr Pro Ser Ala Met Lys Ser  
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 35 40 45

Lys Lys Ile Ala Leu Ser Asp Ala Arg Ser Met Lys His Ala Leu Arg  
 50 55 60

Glu Ile Lys Ile Ile Arg Arg Leu Asp His Asp Asn Ile Val Lys Val  
 65 70 75 80

Tyr Glu Val Leu Gly Pro Lys Gly Thr Asp Leu Gln Gly Glu Leu Phe  
 85 90 95

Lys Phe Ser Val Ala Tyr Ile Val Gln Glu Tyr Met Glu Thr Asp Leu  
 100 105 110

Ala Arg Leu Leu Glu Gln Gly Thr Leu Ala Glu Glu His Ala Lys Leu  
 115 120 125

Phe Met Tyr Gln Leu Leu Arg Gly Leu Lys Tyr Ile His Ser Ala Asn  
 130 135 140

Val Leu His Arg Asp Leu Lys Pro Ala Asn Ile Phe Ile Ser Thr Glu  
 145 150 155 160

Asp Leu Val Leu Lys Ile Gly Asp Phe Gly Leu Ala Arg Ile Val Asp  
 165 170 175

Gln His Tyr Ser His Lys Gly Tyr Leu Ser Glu Gly Leu Val Thr Lys  
 180 185 190

Trp Tyr Arg Ser Pro Arg Leu Leu Leu Ser Pro Asn Asn Tyr Thr Lys  
 195 200 205

Ala Ile Asp Met Trp Ala Ala Gly Cys Ile Leu Ala Glu Met Leu Thr  
 210 215 220

EX03-075C-US patentin.txt

Gly Arg Met Leu Phe Ala Gly Ala His Glu Leu Glu Gln Met Gln Leu  
225 230 235 240

Ile Leu Glu Thr Ile Pro Val Ile Arg Glu Glu Asp Lys Asp Glu Leu  
245 250 255

Leu Arg Val Met Pro Ser Phe Val Ser Ser Thr Trp Glu Val Lys Arg  
260 265 270

Pro Leu Arg Lys Leu Leu Pro Glu Val Asn Ser Glu Ala Ile Asp Phe  
275 280 285

Leu Glu Lys Ile Leu Thr Phe Asn Pro Met Asp Arg Leu Thr Ala Glu  
290 295 300

Met Gly Leu Gln His Pro Tyr Met Ser Pro Tyr Ser Cys Pro Glu Asp  
305 310 315 320

Glu Pro Thr Ser Gln His Pro Phe Arg Ile Glu Asp Glu Ile Asp Asp  
325 330 335

Ile Val Leu Met Ala Ala Asn Gln Ser Gln Leu Ser Asn Trp Asp Thr  
340 345 350

Cys Ser Ser Arg Tyr Pro Val Ser Leu Ser Ser Asp Leu Glu Trp Arg  
355 360 365

Pro Asp Arg Cys Gln Asp Ala Ser Glu Val Gln Arg Asp Pro Arg Gly  
370 375 380

Phe Gly Ala Leu Ala Glu Asp Val Gln Val Asp Pro Arg Lys Asp Ser  
385 390 395 400

His Ser Ser Ser Glu Arg Phe Leu Glu Gln Ser His Ser Ser Met Glu  
405 410 415

Arg Ala Phe Glu Ala Asp Tyr Gly Arg Ser Cys Asp Tyr Lys Val Gly  
420 425 430

Ser Pro Ser Tyr Leu Asp Lys Leu Leu Trp Arg Asp Asn Lys Pro His  
435 440 445

His Tyr Ser Glu Pro Lys Leu Ile Leu Asp Leu Ser His Trp Lys Gln  
450 455 460

Ala Ala Gly Ala Pro Pro Thr Ala Thr Gly Leu Ala Asp Thr Gly Ala  
Page 80



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135

140

Ile Lys Val Gly Asp Leu Gly Ile Ala Arg Val Leu Glu Asn His Cys  
 145 150 155 160

Asp Met Ala Ser Thr Leu Ile Gly Thr Pro Tyr Tyr Met Ser Pro Glu  
 165 170 175

Leu Phe Ser Asn Lys Pro Tyr Asn Tyr Lys Ser Asp Val Trp Ala Leu  
 180 185 190

Gly Cys Cys Val Tyr Glu Met Ala Thr Leu Lys His Ala Phe Asn Ala  
 195 200 205

Lys Asp Met Asn Ser Leu Val Tyr Arg Ile Ile Glu Gly Lys Leu Pro  
 210 215 220

Ala Met Pro Arg Asp Tyr Ser Pro Glu Leu Ala Glu Leu Ile Arg Thr  
 225 230 235 240

Met Leu Ser Lys Arg Pro Glu Glu Arg Pro Ser Val Arg Ser Ile Leu  
 245 250 255

Arg Gln Pro Tyr Ile Lys Arg Gln Ile Ser Phe Phe Leu Glu Ala Thr  
 260 265 270

Lys Ile Lys Thr Ser Lys Asn Asn Ile Lys Asn Gly Asp Ser Gln Ser  
 275 280 285

Lys Pro Phe Ala Thr Val Val Ser Gly Glu Ala Glu Ser Asn His Glu  
 290 295 300

Val Ile His Pro Gln Pro Leu Ser Ser Glu Gly Ser Gln Thr Tyr Ile  
 305 310 315 320

Met Gly Glu Gly Lys Cys Leu Ser Gln Glu Lys Pro Arg Ala Ser Gly  
 325 330 335

Leu Leu Lys Ser Pro Ala Ser Leu Lys Ala His Thr Cys Lys Gln Asp  
 340 345 350

Leu Ser Asn Thr Thr Glu Leu Ala Thr Ile Ser Ser Val Asn Ile Asp  
 355 360 365

Ile Leu Pro Ala Lys Gly Arg Asp Ser Val Ser Asp Gly Phe Val Gln  
 370 375 380

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Glu Asn Gln Pro Arg Tyr Leu Asp Ala Ser Asn Glu Leu Gly Gly Ile  
385 390 395 400

Cys Ser Ile Ser Gln Val Glu Glu Glu Met Leu Gln Asp Asn Thr Lys  
405 410 415

Ser Ser Ala Gln Pro Glu Asn Leu Ile Pro Met Trp Ser Ser Asp Ile  
420 425 430

Val Thr Gly Glu Lys Asn Glu Pro Val Lys Pro Leu Gln Pro Leu Ile  
435 440 445

Lys Glu Gln Lys Pro Lys Asp Gln Ser Leu Ala Leu Ser Pro Lys Leu  
450 455 460

Glu Cys Ser Gly Thr Ile Leu Ala His Ser Asn Leu Arg Leu Leu Gly  
465 470 475 480

Ser Ser Asp Ser Pro Ala Ser Ala Ser Arg Val Ala Gly Ile Thr Gly  
485 490 495

Val Cys His His Ala Gln Asp Gln Val Ala Gly Glu Cys Ile Ile Glu  
500 505 510

Lys Gln Gly Arg Ile His Pro Asp Leu Gln Pro His Asn Ser Gly Ser  
515 520 525

Glu Pro Ser Leu Ser Arg Gln Arg Arg Gln Lys Arg Arg Glu Gln Thr  
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545 550 555 560

Gln Glu Ser Pro Pro Arg Phe Leu Pro Ser His Pro Ile Val Gly Lys  
565 570 575

Val Asp Val Thr Ser Thr Gln Lys Glu Ala Glu Asn Gln Arg Arg Val  
580 585 590

Val Thr Gly Ser Val Ser Ser Ser Arg Ser Ser Glu Met Ser Ser Ser  
595 600 605

Lys Asp Arg Pro Leu Ser Ala Arg Glu Arg Arg Arg Leu Lys Gln Ser  
610 615 620

Gln Glu Glu Met Ser Ser Ser Gly Pro Ser Val Arg Lys Ala Ser Leu  
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Ser Val Ala Gly Pro Gly Lys Pro Gln Glu Glu Asp Gln Pro Leu Pro  
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675 680 685

Asp Lys Ser Asp Gly Asp Tyr Gly Glu Gly Lys Gly Gln Thr Asn Glu  
690 695 700

Ile Asn Ala Leu Val Gln Leu Met Thr Gln Thr Leu Lys Leu Asp Ser  
705 710 715 720

Lys Glu Ser Cys Glu Asp Val Pro Val Ala Asn Pro Val Ser Glu Phe  
725 730 735

Lys Leu His Arg Lys Tyr Arg Asp Thr Leu Ile Leu His Gly Lys Val  
740 745 750

Ala Glu Glu Ala Glu Glu Ile His Phe Lys Glu Leu Pro Ser Ala Ile  
755 760 765

Met Pro Gly Ser Glu Lys Ile Arg Arg Leu Val Glu Val Leu Arg Thr  
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Asp Val Ile Arg Gly Leu Gly Val Gln Leu Leu Glu Gln Val Tyr Asp  
785 790 795 800

Leu Leu Glu Glu Glu Asp Glu Phe Asp Arg Glu Val Arg Leu Arg Glu  
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<213> Homo sapiens

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100 105 110

Lys Asn Ser Asn Leu Gln His Ile Asn Phe Thr Arg Asn Lys Leu Thr  
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Leu Val Gly Asn Pro Phe Thr Cys Ser Cys Asp Ile Met Trp Ile Lys  
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165 170 175

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180 185 190

Asn Cys Gly Leu Pro Ser Ala Asn Leu Ala Ala Pro Asn Leu Thr Val  
195 200 205

Glu Glu Gly Lys Ser Ile Thr Leu Ser Cys Ser Val Ala Gly Asp Pro  
210 215 220

Val Pro Asn Met Tyr Trp Asp Val Gly Asn Leu Val Ser Lys His Met  
225 230 235 240

Asn Glu Thr Ser His Thr Gln Gly Ser Leu Arg Ile Thr Asn Ile Ser  
245 250 255

Ser Asp Asp Ser Gly Lys Gln Ile Ser Cys Val Ala Glu Asn Leu Val  
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Gly Glu Asp Gln Asp Ser Val Asn Leu Thr Val His Phe Ala Pro Thr  
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Phe Thr Val Lys Gly Asn Pro Lys Pro Ala Leu Gln Trp Phe Tyr Asn  
 305 310 315 320

Gly Ala Ile Leu Asn Glu Ser Lys Tyr Ile Cys Thr Lys Ile His Val  
 325 330 335

Thr Asn His Thr Glu Tyr His Gly Cys Leu Gln Leu Asp Asn Pro Thr  
 340 345 350

His Met Asn Asn Gly Asp Tyr Thr Leu Ile Ala Lys Asn Glu Tyr Gly  
 355 360 365

Lys Asp Glu Lys Gln Ile Ser Ala His Phe Met Gly Trp Pro Gly Ile  
 370 375 380

Asp Asp Gly Ala Asn Pro Asn Tyr Pro Asp Val Ile Tyr Glu Asp Tyr  
 385 390 395 400

Gly Thr Ala Ala Asn Asp Ile Gly Asp Thr Thr Asn Arg Ser Asn Glu  
 405 410 415

Ile Pro Ser Thr Asp Val Thr Asp Lys Thr Gly Arg Glu His Leu Ser  
 420 425 430

Val Tyr Ala Val Val Val Ile Ala Ser Val Val Gly Phe Cys Leu Leu  
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Val Met Leu Phe Leu Leu Lys Leu Ala Arg His Ser Lys Phe Gly Met  
 450 455 460

Lys Gly Pro Ala Ser Val Ile Ser Asn Asp Asp Asp Ser Ala Ser Pro  
 465 470 475 480

Leu His His Ile Ser Asn Gly Ser Asn Thr Pro Ser Ser Ser Glu Gly  
 485 490 495

Gly Pro Asp Ala Val Ile Ile Gly Met Thr Lys Ile Pro Val Ile Glu  
 500 505 510

Asn Pro Gln Tyr Phe Gly Ile Thr Asn Ser Gln Leu Lys Pro Asp Thr  
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515

Phe Val Gln His Ile Lys Arg His Asn Ile Val Leu Lys Arg Glu Leu  
530 535 540

Gly Glu Gly Ala Phe Gly Lys Val Phe Leu Ala Glu Cys Tyr Asn Leu  
545 550 555 560

Cys Pro Glu Gln Asp Lys Ile Leu Val Ala Val Lys Thr Leu Lys Asp  
565 570 575

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580 585 590

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595 600 605

Glu Gly Asp Pro Leu Ile Met Val Phe Glu Tyr Met Lys His Gly Asp  
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675 680 685

Leu Val Lys Ile Gly Asp Phe Gly Met Ser Arg Asp Val Tyr Ser Thr  
690 695 700

Asp Tyr Tyr Arg Val Gly Gly His Thr Met Leu Pro Ile Arg Trp Met  
705 710 715 720

Pro Pro Glu Ser Ile Met Tyr Arg Lys Phe Thr Thr Glu Ser Asp Val  
725 730 735

Trp Ser Leu Gly Val Val Leu Trp Glu Ile Phe Thr Tyr Gly Lys Gln  
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Pro Trp Tyr Gln Leu Ser Asn Asn Glu Val Ile Glu Cys Ile Thr Gln  
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Cys Glu Arg Thr Ser Phe Ala Phe Leu Arg Gln Glu Leu Pro Val Arg  
 50 55 60

Leu Ala Asn Ile Leu Lys Glu Ile Asp Ile Leu Pro Thr Gln Leu Val  
 65 70 75 80

Asn Thr Ser Ser Val Gln Leu Val Lys Ser Trp Tyr Ile Gln Ser Leu  
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Cys Thr Val Asp Pro Val Thr Asn Gln Asn Leu Gln Tyr Phe Leu Asp  
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Arg Phe Tyr Met Asn Arg Ile Ser Thr Arg Met Leu Met Asn Gln His  
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Arg Val Ser Phe Arg Gly Glu Ala Ser Glu Thr Leu Gln Ser Pro Gly  
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Phe Arg Gly Pro Lys Asp Arg Ala Arg Lys Leu Ala Glu Val Gly Ser  
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Page 94

305

310

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Arg Ile Tyr Leu Lys Ala Glu Val Ala Asp Glu Lys Leu His Val Thr  
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 Page 95

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Lys Gln Lys Thr Lys Thr Ile Arg Ser Thr Leu Asn Pro Gln Trp Asn  
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260 265 270

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Page 101

275

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Page 102

145

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Ser Asp Val Tyr Ser Tyr Gly Ile Val Leu Tyr Glu Leu Met Thr Gly  
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Glu Leu Pro Tyr Ser His Ile Asn Asn Arg Asp Gln Ile Ile Phe Met  
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580 585 590

Lys Glu Glu Arg Pro Leu Phe Pro Gln Ile Leu Ser Ser Ile Glu Leu  
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35 40 45

Val Val Ala Ile Lys Ile Ile Asp Leu Glu Glu Ala Glu Asp Glu Ile  
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Glu Asp Ile Gln Gln Glu Ile Thr Val Leu Ser Gln Cys Asp Ser Pro  
65 70 75 80

Tyr Val Thr Lys Tyr Tyr Gly Ser Tyr Leu Lys Asp Thr Lys Leu Trp  
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 Ile Lys Ala Ala Asn Val Leu Leu Ser Glu His Gly Glu Val Lys Leu  
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 Ala Asp Phe Gly Val Ala Gly Gln Leu Thr Asp Thr Gln Ile Lys Arg  
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 Asn Thr Phe Val Gly Thr Pro Phe Trp Met Ala Pro Glu Val Ile Lys  
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 Gln Ser Ala Tyr Asp Ser Lys Ala Asp Ile Trp Ser Leu Gly Ile Thr  
 195 200 205  
 Ala Ile Glu Leu Ala Arg Gly Glu Pro Pro His Ser Glu Leu His Pro  
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 260 265 270  
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Lys Asp Ile Pro Lys Arg Pro Phe Ser Gln Cys Leu Ser Thr Ile Ile  
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Tyr Phe Gly Ser Tyr Leu Lys Ser Thr Lys Leu Trp Ile Ile Met Glu  
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Glu Glu Thr Tyr Ile Ala Thr Ile Leu Arg Glu Ile Leu Lys Gly Leu  
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Asp Tyr Leu His Ser Glu Arg Lys Ile His Arg Asp Ile Lys Ala Ala  
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Asn Val Leu Leu Ser Glu Gln Gly Asp Val Lys Leu Ala Asp Phe Gly  
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180 185 190

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Ala Lys Gly Glu Pro Pro Asn Ser Asp Leu His Pro Met Arg Val Leu  
210 215 220

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225 230 235 240

Lys Pro Phe Lys Glu Phe Val Glu Ala Cys Leu Asn Lys Asp Pro Arg  
245 250 255

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260 265 270

Tyr Thr Lys Lys Thr Ser Phe Leu Thr Glu Leu Ile Asp Arg Tyr Lys  
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Arg Trp Lys Ser Glu Gly His Gly Glu Glu Ser Ser Ser Glu Asp Ser  
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Asp Ile Asp Gly Glu Ala Glu Asp Gly Glu Gln Gly Pro Ile Trp Thr  
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Phe Pro Pro Thr Ile Arg Pro Ser Pro His Ser Lys Leu His Lys Gly  
325 330 335

Thr Ala Leu His Ser Ser Gln Lys Pro Ala Asp Ala Val Lys Arg Gln  
340 345 350

Pro Arg Ser Gln Cys Leu Ser Thr Leu Val Arg Pro Val Phe Gly Glu  
355 360 365

Leu Lys Glu Lys His Lys Gln Ser Gly Gly Ser Val Gly Ala Leu Glu  
370 375 380

Glu Leu Glu Asn Ala Phe Ser Leu Ala Glu Glu Ser Cys Pro Gly Ile  
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385

390

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 35 40 45

Glu Val Ala Met Glu Glu Glu Gly Leu Ala Asp Glu Glu Lys Lys Leu  
 50 55 60

Arg Arg Ser Gln His Ala Arg Lys Glu Thr Glu Phe Leu Arg Leu Lys  
 65 70 75 80

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Arg Gly Ala Phe Gly Glu Val Arg Leu Val Gln Lys Lys Asp Thr Gly  
 100 105 110

His Ile Tyr Ala Met Lys Ile Leu Arg Lys Ser Asp Met Leu Glu Lys  
 115 120 125

Glu Gln Val Ala His Ile Arg Ala Glu Arg Asp Ile Leu Val Glu Ala  
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 145 150 155 160

Asn Leu Tyr Leu Ile Met Glu Phe Leu Pro Gly Gly Asp Met Met Thr  
 165 170 175

Leu Leu Met Lys Lys Asp Thr Leu Thr Glu Glu Glu Thr Gln Phe Tyr  
 Page 110

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Ile Ser Glu Thr Val Leu Ala Ile Asp Ala Ile His Gln Leu Gly Phe  
195 200 205

Ile His Arg Asp Ile Lys Pro Asp Asn Leu Leu Leu Asp Ala Lys Gly  
210 215 220

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His Arg Thr Glu Phe Tyr Arg Asn Leu Thr His Asn Pro Pro Ser Asp  
245 250 255

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260 265 270

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370 375 380

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385 390 395 400

Ile Lys Ser Ile Asp Asp Thr Ser Asn Phe Asp Asp Phe Pro Glu Ser  
405 410 415

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65 70 75 80

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85 90 95

Arg Gly Ala Phe Gly Glu Val Arg Leu Val Gln Lys Lys Asp Thr Gly  
100 105 110

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180 185 190

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Ile His Arg Asp Ile Lys Pro Asp Asn Leu Leu Leu Asp Ser Lys Gly  
 210 215 220

His Val Lys Leu Ser Asp Phe Gly Leu Cys Thr Gly Leu Lys Lys Ala  
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His Arg Thr Glu Phe Tyr Arg Asn Leu Asn His Ser Leu Pro Ser Asp  
 245 250 255

Phe Thr Phe Gln Asn Met Asn Ser Lys Arg Lys Ala Glu Thr Trp Lys  
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Arg Asn Arg Arg Gln Leu Ala Phe Ser Thr Val Gly Thr Pro Asp Tyr  
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Ile Ala Pro Glu Val Phe Met Gln Thr Gly Tyr Asn Lys Leu Cys Asp  
 290 295 300

Trp Trp Ser Leu Gly Val Ile Met Tyr Glu Met Leu Ile Gly Tyr Pro  
 305 310 315 320

Pro Phe Cys Ser Glu Thr Pro Gln Glu Thr Tyr Lys Lys Val Met Asn  
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 340 345 350

Ala Lys Asp Leu Ile Leu Arg Phe Cys Cys Glu Trp Glu His Arg Ile  
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 370 375 380

Val Asp Trp Glu His Ile Arg Glu Arg Pro Ala Ala Ile Ser Ile Glu  
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 420 425 430

Tyr Lys Asn Lys Asp Trp Val Phe Ile Asn Tyr Thr Tyr Lys Arg Phe  
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<400> 59

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Gly Gly Arg Lys Ile Ser Asp Tyr Phe Glu Phe Ala Gly Gly Ser Gly  
65 70 75 80

Pro Gly Thr Ser Pro Gly Arg Lys Ser Tyr Gln Ala Ser Glu Lys Asp  
85 90 95

Lys Phe Thr Glu Gly Arg Asp Arg Gln Arg Lys Met Leu Ala Lys Arg  
100 105 110

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Leu Lys Lys Glu Glu Ala Glu Ile Gln Ala Glu Leu Glu Arg Leu Glu  
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Arg Val Arg Asn Leu Arg Ile Gly Glu Leu Lys Arg Ile His Asn Glu  
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Leu Leu His Leu Leu Asp Arg Gly Gly Phe Ser Lys Val Tyr Lys Ala  
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Phe Glu Leu Ile Glu Gln Arg Tyr Val Ala Val Lys Ile His Gln Leu  
225 230 235 240

Asn Lys Asn Trp Arg Asp Glu Lys Lys Glu Asn Tyr His Lys His Ala  
245 250 255

Cys Arg Glu Tyr Trp Ile His Lys Glu Leu Asp His Pro Arg Ile Ile  
260 265 270

Lys Leu Tyr Asp Tyr Phe Ser Leu Asp Thr Asp Ser Phe Cys Thr Val  
275 280 285

Leu Glu Tyr Cys Glu Gly Asn Asp Leu Asn Phe Tyr Leu Lys Arg His  
290 295 300

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305 310 315 320

Asn Ala Leu Lys Tyr Leu Asn Lys Ile Lys Pro Pro Ile Ile His Tyr  
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340 345 350

Glu Arg Lys Ile Thr Glu Leu Gly Leu Ser Lys Ile Met Asp Asp Asp  
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65 70 75 80

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85 90 95

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Glu Gln Leu Ala Gln Arg Gly Ala Gly Leu Cys Phe Thr Phe Val Ser  
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180 185 190

Ser Cys Ser Ser Gln Lys Gln Ile Ser Ile Gln His Arg Arg Thr Gln  
195 200 205

Ser Asp Leu Thr Ile Glu Lys Ile Ser Ala Leu Glu Asn Ser Lys Asn  
210 215 220

Ser Asp Leu Glu Lys Lys Glu Gly Arg Ile Asp Asp Leu Leu Arg Ala  
225 230 235 240

Asn Cys Asp Leu Arg Arg Gln Ile Asp Glu Gln Gln Lys Met Leu Glu  
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Lys Tyr Lys Glu Arg Leu Asn Arg Cys Val Thr Met Ser Lys Lys Leu  
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290 295 300

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305 310 315 320

Ile Lys Gln Gln Glu Arg Ile Asn Ser Gln Arg Glu Glu Ile Glu Arg  
325 330 335

Gln Arg Lys Met Leu Ala Lys Arg Lys Pro Pro Ala Met Gly Gln Ala  
340 345 350

Pro Pro Ala Thr Asn Glu Gln Lys Gln Arg Lys Ser Lys Thr Asn Gly  
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370 375 380

Ile Phe Lys Leu Arg Leu Gly His Leu Lys Lys Glu Glu Ala Glu Ile  
385 390 395 400

Gln Ala Glu Leu Glu Arg Leu Glu Arg Val Arg Asn Leu His Ile Arg  
405 410 415

Glu Leu Lys Arg Ile His Asn Glu Asp Asn Ser Gln Phe Lys Asp His  
420 425 430

Pro Thr Leu Asn Asp Arg Tyr Leu Leu Leu His Leu Leu Gly Arg Gly  
435 440 445

Gly Phe Ser Glu Val Tyr Lys Ala Phe Asp Leu Thr Glu Gln Arg Tyr  
450 455 460

Val Ala Val Lys Ile His Gln Leu Asn Lys Asn Trp Arg Asp Glu Lys  
465 470 475 480

Lys Glu Asn Tyr His Lys His Ala Cys Arg Glu Tyr Arg Ile His Lys  
485 490 495

Glu Leu Asp His Pro Arg Ile Val Lys Leu Tyr Asp Tyr Phe Ser Leu  
Page 117

500

Asp Thr Asp Ser Phe Cys Thr Val Leu Glu Tyr Cys Glu Gly Asn Asp  
515 520 525

Leu Asp Phe Tyr Leu Lys Gln His Lys Leu Met Ser Glu Lys Glu Ala  
530 535 540

Arg Ser Ile Ile Met Gln Ile Val Asn Ala Leu Lys Tyr Leu Asn Glu  
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Leu Val Asn Gly Thr Ala Cys Gly Glu Ile Lys Ile Thr Asp Phe Gly  
580 585 590

Leu Ser Lys Ile Met Asp Asp Asp Ser Tyr Asn Ser Val Asp Gly Met  
595 600 605

Glu Leu Thr Ser Gln Gly Ala Gly Thr Tyr Trp Tyr Leu Pro Pro Glu  
610 615 620

Cys Phe Val Val Gly Lys Glu Pro Pro Lys Ile Ser Asn Lys Val Asp  
625 630 635 640

Val Trp Ser Val Gly Val Ile Phe Tyr Gln Cys Leu Tyr Gly Arg Lys  
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Pro Phe Gly His Asn Gln Ser Gln Gln Asp Ile Leu Gln Glu Asn Thr  
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675 680 685

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 50 55 60

Gly Glu Gly Thr Phe Ser Ser Val Tyr Leu Ala Thr Ala Gln Leu Gln  
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Val Gly Pro Glu Glu Lys Ile Ala Leu Lys His Leu Ile Pro Thr Ser  
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His Pro Ile Arg Ile Ala Ala Glu Leu Gln Cys Leu Thr Val Ala Gly  
 100 105 110

Gly Gln Asp Asn Val Met Gly Val Lys Tyr Cys Phe Arg Lys Asn Asp  
 115 120 125

His Val Val Ile Ala Met Pro Tyr Leu Glu His Glu Ser Phe Leu Asp  
 130 135 140

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Leu Phe Lys Ala Leu Lys Arg Ile His Gln Phe Gly Ile Val His Arg  
 165 170 175

Asp Val Lys Pro Ser Asn Phe Leu Tyr Asn Arg Arg Leu Lys Lys Tyr  
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 275 280 285

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 370 375 380

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 385 390 395 400

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515 520 525

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Gln Ala Ile Asp Phe Pro Phe Leu Val Lys Leu Gln Phe Ser Phe Lys  
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165 170 175

Gln Gln Gly Tyr Leu Gln Val Thr Asp Phe Gly Phe Ala Lys Arg Val  
180 185 190

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210 215 220

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245 250 255

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260 265 270

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290 295 300

Ala Ile Tyr Glu Lys Lys Val Glu Ala Pro Phe Ile Pro Lys Tyr Thr  
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